

**BEFORE THE PUBLIC UTILITIES COMMISSION  
OF THE STATE OF CALIFORNIA**



**FILED**

10-31-07  
04:59 PM

Order Instituting Rulemaking to Implement the  
Commission's Procurement Incentive Framework and to  
Examine the Integration of Greenhouse Gas Emissions  
Standards into Procurement Practices

And

*[Also filed at California Energy Commission]*

Rulemaking 06-04-009  
(Filed April 13, 2006)

And

*CEC Docket 07-OIIP-01*

**COMMENTS OF THE INDEPENDENT ENERGY PRODUCERS  
ASSOCIATION IN RESPONSE TO ADMINISTRATIVE LAW  
JUDGE'S RULING REQUESTING COMMENTS AND NOTICING  
WORKSHOP ON ALLOWANCE ALLOCATION ISSUES**

**INDEPENDENT ENERGY PRODUCERS  
ASSOCIATION**

Steven Kelly, Policy Director  
1215 K Street, Suite 900  
Sacramento, CA 95814  
Telephone: (916) 448-9499  
Facsimile: (916) 448-0182  
Email: [steven@iepa.com](mailto:steven@iepa.com)

**GOODIN, MACBRIDE, SQUERI,  
DAY & LAMPREY, LLP**

Brian T. Cragg  
505 Sansome Street, Suite 900  
San Francisco, CA 94111  
Telephone: (415) 392-7900  
Facsimile: (415) 398-4321  
Email: [bcragg@goodinmacbride.com](mailto:bcragg@goodinmacbride.com)

Attorneys for the Independent Energy Producers  
Association

Date: October 31, 2007

**BEFORE THE PUBLIC UTILITIES COMMISSION  
OF THE STATE OF CALIFORNIA**

Order Instituting Rulemaking to Implement the  
Commission's Procurement Incentive Framework and to  
Examine the Integration of Greenhouse Gas Emissions  
Standards into Procurement Practices

And

*[Also filed at California Energy Commission]*

Rulemaking 06-04-009  
(Filed April 13, 2006)

And

*CEC Docket 07-OIIP-01*

**COMMENTS OF THE INDEPENDENT ENERGY PRODUCERS  
ASSOCIATION IN RESPONSE TO ADMINISTRATIVE LAW  
JUDGE'S RULING REQUESTING COMMENTS AND NOTICING  
WORKSHOP ON ALLOWANCE ALLOCATION ISSUES**

Pursuant to the schedule established in the Administrative Law Judge's Ruling Requesting Comments on Allowance Allocation Issues, dated October 15, 2007, the Independent Energy Producers Association ("IEP") submits its Comments on the questions posed in that ruling. IEP has appended the questions posed by the Ruling in Attachment A, attached hereto. IEP's responses to the individual questions posed in the Ruling, therefore, are contained in Attachment A.

Respectfully submitted this 31<sup>st</sup> day of October, 2007, at San Francisco,  
California.

/s/ Steven Kelly

Steven Kelly  
Policy Director  
Independent Energy Producers Association  
1215 K Street, Suite 900  
916/448-9499  
Steven @iepa.com

**ATTACHMENT A:  
Questions Posed By ALJ Ruling  
And  
IEP Responses**

**[IEP Responses are provided in boldface]**

**3.1. Evaluation Criteria**

Developing evaluation criteria may help the Commissions analyze the issues surrounding emission allowance allocation issues. For example, the final report of the Market Advisory Committee (MAC) includes a discussion of emission allowance distribution and recommends that California should “strive to distribute allowances in a manner consistent with fundamental objectives of cost-effectiveness, fairness, and simplicity,” and should “distribute allowances in a manner that advances the following principles,” which are copied and numbered below:

- a. Reduces the cost of the program to consumers, especially low-income consumers,
- b. Avoids windfall profits where such profits could occur,
- c. Promotes investment in low-GHG technologies and fuels (including energy efficiency),
- d. Advances the state’s broader environmental goals by ensuring that environmental benefits accrue to overburdened communities,
- e. Mitigates economic dislocation caused by competition from firms in uncapped jurisdictions,
- f. Avoids perverse incentives that discourage or penalize investments in low-GHG technologies and fuels (including energy efficiency),
- g. Provides transition assistance to displaced workers, and
- h. Helps to ensure market liquidity.

Q1. Please comment on each of the criteria listed by the MAC. Are these criteria consistent with AB 32? Should other criteria be added, such as criteria specific to the electricity and/or natural gas sectors? In making trade-offs among the criteria, which criteria should receive the most weight and which the least weight?

**IEP suggests consideration of some additional principles in the allocation of allowances:**

- **Maintains grid/system reliability [see, AB32, Section 38501, (h)];**
- **Provides programmatic transparency;**
- **Fosters competitive, level-playing field regarding ownership types; and**
- **Does not undermine zero-emitting and low-emitting generation technologies associated with new and existing generation resources.**
- **Does not discriminate based between in-state and out-of-state generators.**

**In addition to the additional principles outlined above, IEP offers the following comments regarding the MAC principles recommended for consideration when allocating allowances ...**

**IEP is unclear as to what is meant by the criteria of “Avoids *windfall profits* where such profits could occur” (emphasis added) – The concept of “windfall profits” is vague, undefined, and difficult to understand in the context of moving toward market-based mechanisms for reducing GHG emissions. We are uncertain how the commission/CARB would distinguish “profits” from the marketplace with “windfall profits.” For example, if a wind generator’s revenue stream increases due to the implementation of the state’s GHG program, is this profit a “windfall profit”? Similarly, would another type of generator positioned similarly in the market as the wind generator be treated differently than the wind generator when assessing “windfall profits”? The lack of clarity and definition as to what constitutes a “windfall profit” counsels against using it as a criteria for program design.**

### **3.2. Basic Options**

These questions should be answered for both the electricity and natural gas sectors. If your recommendations differ for a load-based or deliverer/first seller point of regulation in the electricity sector, or for the natural gas sector, explain why.

Q2. Broadly speaking, should emission allowances be auctioned or allocated administratively, or some combination?

**IEP supports market—based approaches to the allocation of allowances, but believes a transition period must be provided to a point in time in the future where allowances are auctioned 100%. The purpose of the transition would be to protect against catastrophic, unanticipated economic impacts of auctioning and allow the market to adjust to auction protocols and mechanics.**

Q3. If you recommend partial auctioning, what proportion should be auctioned? Should the percentage of auctioning change over time? If so, what factors should be used to design the transition toward more auctioning?

**See answer above.**

Q4. How should new market entrants, such as energy service providers, community choice aggregators, or (deliverer/first seller system only) new importers, obtain emission allowances, i.e., through auctioning, administrative allocation, or some combination?

**New entrants should be treated comparably to existing entities. In this regard, comparable treatment should extend to the Primary Auction(s) for allowances and/or administrative allocations, as well as access to secondary markets to buy/sell available allowances needed in real-time.**

**It is a matter of concern that as the state moves to a GHG emission reduction paradigm, the state is simultaneously imposing significant new electric market structures (e.g. MRTU) *and* obligations on generators (e.g. RA obligations, backstop reliability services, etc). For example, the CAISO tariff imposes on certain generators a must-offer obligation to ensure grid reliability. Similarly, the CPUC RA program will impose an “obligation to run when called” condition on RA designated units. In both cases, the obligations will commit the generators to be available for dispatch in a context in which dispatch decisions are determined by third-parties and not the plant operator. 1<sup>st</sup> Seller generators, , whether new or existing, must have the means to buy/sell allowances sufficient to cover the operations of the unit when dispatched by others and have the opportunity to reasonably recover the costs of the allowances procured to match their operations. Among other tools to help mitigate these uncertainties (e.g. flexible compliance tools – see below), a secondary market is a necessity so that generators can access needed allowances in a timely and cost-effective manner as needed.**

### **3.3. Auctioning of Emission Allowances—General Questions**

These questions assume that some or all emission allowances are auctioned, and should be answered for both the electricity and natural gas sectors. If your recommendations differ for a load-based or deliverer/first seller point of regulation in the electricity sector, or for the natural gas sector, explain why.

Q5. What are the important policy considerations in the design of an auction?

**If an auction is employed, the important policy considerations include the following:**

- **Foster a competitive, level playing field;**
- **Ensure transparency;**
- **Provide for independent, 3<sup>rd</sup> Party Administration such that no market participant is involved in program administration;**
- **Allow for secondary markets to reallocate allowances among willing buyers/sellers;**
- **Provide tools to protect against market power, catastrophic economic effects, and to ensure maintenance of grid reliability. These would include flexible compliance tools (e.g. Minimum 3 year compliance period, secondary markets, off-sets, etc).**

- **Tailor the frequency of the primary auctions to maximize liquidity in the allowance markets. While the assumption is that annual auctions are a minimum requirement, consideration should be given to more frequent auctions (e.g. quarterly, monthly) to improve the efficiency of the market, provide protections against market power abuse/hoarding, etc.**

Q6. How often should emission allowances be auctioned? How does the timing and frequency of auctions relate to the determination of a mandatory compliance period, if at all?

- **“Primary Auctions” should be at least annual, conducted by an independent, 3<sup>rd</sup> Party Administrator. Consideration should be for more frequent auctions to maximize the liquidity in the marketplace (see above) and provide protections against market power/hoarding.**
- **A mandatory compliance period should be at least 3 years and provide for banking.**
- **“Secondary markets,” should be allowed enabling parties to acquire/sell allowances in real-time to better match against their regulatory obligations and provide protections against market power/hoarding. Secondary markets need not be administered by the 3<sup>rd</sup> Party Administrator in charge of the Primary Auction,**

Q7. How should market power concerns be addressed in auction design? If emission allowances are auctioned, how would the administrators of such a program ensure that all market participants are participating in the program and acting in good faith?

- **Ensure that allowances used for purposes of regulatory compliance have a unique serial/certificate number to protect against fraud.**
- **Employ “secondary market” mechanism(s) to discipline the primary auction, ensure protect against market abuse, etc., and promote liquidity.**
- **Employ a market monitoring committee to monitor market. Whether entities such as the Commodities Future Trading Commission, FERC, or some other entity are the appropriate agencies to fill this role should be discussed.**
- **Provide for fines/disgorgement of profits.**

Q8. What criteria should be used to designate the types of expenditures that could be made with auction revenues (including use to reduce end user rates), and the distribution of money within those categories?

**Auction revenue allocations should be based on the following criteria:**

- **If auctions are by sector, then revenues should flow back to that sector;**
- **Revenues should not be allocated in manner that tilts competitive level playing field among generation ownership types (e.g. IOUs vs. Munis vs. IPP).**

Q9. What type of administrative structure should be used for the auction? Should the auction be run by the State or some other independent entity, such as the nonprofit organization being established by the Regional Greenhouse Gas Initiative?

- **Independent, 3<sup>rd</sup> Party Administrators should be employed.**
- **Market participants should not control either the administration of the auction or the determination of how best to allocate auction revenues.**
- **Importantly, the administrative structure ought to be designed so as to protect against the potential for shifting auction revenues to non-GHG emission reduction programs and uses.**

### **3.4. Electricity Sector**

#### **3.4.1. Administrative Allocation of Emission Allowances**

Various methods have been proposed and discussed for the administrative allocation of emission allowances. The following potential methods could be used:

- a. Grandfathering: “A method by which emission allowances are freely distributed to entities covered under an emissions trading program based on historic emissions.” (MAC report,
- b. Benchmarking: “An allowance allocation method in which allowances are distributed by setting a level of permitted emissions per unit of input or output” (e.g., fuel used or sales to customers (pounds (lbs)/megawatt-hour or lbs/million British thermal units (MMBtu)). (MAC report, p. 90.)
- c. Updating: “A form of allowance allocation in which allocations are reviewed and changed over time and/or awarded on the basis of changing circumstances (such as output) rather than historical data (such as emissions, input or output). For example, allowances might be distributed based on megawatt-hours generated or tons of a product manufactured.” (MAC report, p. 96.)
- d. Other: Such as population (lbs of carbon dioxide (CO<sub>2</sub>)/customer or lbs CO<sub>2</sub>/capita), or cost of compliance (based on retail provider supply curves of emission reduction measures, or a comparable metric).

*Answer each of the questions in this section, first, for a load-based system in the electricity sector and, second, for a deliverer/first seller system in the electricity sector. If your recommendations differ for a load-based or deliverer/first seller point of regulation, explain why.*

Q10. If some or all allowances are allocated administratively, which of the above method or methods should be used for the initial allocations? If you prefer an option other than one of those listed above, describe your preferred method in detail. In addition to your recommendation, comment on the pros and cons of each method listed above, especially regarding the impact on market performance, prices, costs to customers, distributional consequences, and effect on new entrants.

**IEP continues to evaluate the efficacy of these approaches. At this point, we do not have a preferred option.**

Q11. Should the method for allocating emission allowances remain consistent from one year to the next, or should it change as the program is implemented?

**The method should remain consistent, unless convincing evidence arises that change is needed to meet programmatic goals.**

Q12. If new market entrants receive emission allowance allocations, how would the proper level of allocations be determined for them?

**IEP continues to evaluate the efficacy of these approaches. At this point, we do not have a preferred option.**

Q13. If emission allowances are allocated based on load/sales, population, or other factors that change over time, how often should the allowance allocations be updated?

**Allowance allocations should be updated annually to reflect market conditions.**

Q14. If emission allowances are allocated based on historical emissions (“grandfathering”) or benchmarking, what base year(s) should be used as the basis for those allocations?

**IEP continues to evaluate the efficacy of these approaches. At this point, we do not have a preferred option.**

Q15. If emission allowances are allocated based initially on historical emissions (“grandfathering”), should the importance of historical emissions in the calculation of allowances be reduced in subsequent years as providers respond to the need to reduce GHGs? If so, how should this be accomplished? By 2020, should all allocations be independent of pre-2012 historical emissions?



**IEP continues to evaluate the efficacy of these approaches. At this point, we do not have a preferred option.**

Q16. Should a two-track system be created, with different emission allowances for deliverers/first sellers or retail providers with legacy coal-fueled power plants or legacy coal contracts? What are the factors and trade-offs in making this decision? How would the two tracks be determined, e.g., using an historical system emissions factor as the cut-off? How should the allocations differ between the tracks, both initially and over time? What would be the market impact and cost consequences to consumers if a two-track method were used?

**No. A two-track system should not be created for “legacy coal-fired” power plants or contracts. Creating a two-tracked system would undermine the goal of a “competitive level playing field” in the attainment of the GHG objectives.**

Q17. If emission allowances are allocated administratively to retail providers, should other adjustments be made to reflect a retail provider’s unique circumstances? Comment on the following examples, and add others as appropriate:

**IEP continues to evaluate the efficacy of these approaches. At this point, we do not have a preferred option, except to note the importance of maintaining of “competitive level playing field” amongst retailers.**

- a. Climate zone weighting to account for higher energy use by customers in inclement climates, and

**IEP continues to evaluate the efficacy of these approaches. At this point, we do not have a preferred option, except to note the importance of maintaining of “competitive level playing field” amongst retailers.**

- b. Increased emission allowances if there is a greater-than-average proportion of economically disadvantaged customers in a retail provider’s area.

**IEP continues to evaluate the efficacy of these approaches. At this point, we do not have a preferred option, except to note the importance of maintaining of “competitive level playing field” amongst retailers.**

Q18. Should differing levels of regulatory mandates among retail providers (e.g., for renewable portfolio standards, energy efficiency investment, etc.) be taken into account in determining entity-specific emission allowance allocations going forward? For example, should emission allowance allocations be adjusted for retail providers with high historical investments in energy efficiency or renewables due to regulatory mandates? If

those differential mandates persist in the future, should they continue to affect emission allowance allocations?

**IEP continues to evaluate the efficacy of these approaches. At this point, we do not have a preferred option, except to note the importance of maintaining of “competitive level playing field” amongst retailers.**

Q19. How often should the allowance allocation process occur? How far in advance of the compliance period?

**Allowances should be administratively allocated 12 months or more prior to the compliance year. This allows sufficient time (6 months) for disputes to be resolved prior to entering the compliance year. Furthermore, this provides a measure of certainty to the regulated entity as to those allowances it has available to it through administratively determined means.**

Q20. What are the distributional consequences of your recommended emission allowance allocation approach? For example, how would your method affect customers of retail providers with widely differing average emission rates? Or differing rates of population growth?

**IEP continues to evaluate the efficacy of these approaches. At this point, we do not have a preferred option, except to note the importance of maintaining of “competitive level playing field” amongst retailers (and generation sectors).**

### **3.4.2. Emission Allowances with a Deliverer/First Seller Point of Regulation**

Q21. Would a deliverer/first seller point of regulation necessitate auctioning of emission allowances to the deliverers/first sellers?

**No, implementing a 1<sup>st</sup> Seller/source-based approach does not necessitate auctioning of emission allowances to the entities subject to the cap. Allowances can be administratively determined and allocated.**

Q22. Are there interstate commerce concerns if auction proceeds are obtained from all deliverers/first sellers and spent solely for the benefit of California ratepayers? If there are legal considerations, include a detailed analysis and appropriate legal citations.

**In the absence of a substantive legal analysis from a well-qualified expert on commerce clause issues, concerns over commerce clause issues will persist.**

Q23. If you believe 100% auctioning to deliverers/first sellers is not required, explain how emission allowances would be allocated to deliverers/first sellers. In doing so, answer the following:

**Once the amount of allowances for a pre-determined compliance period are established for the electric sector, some proportion thereof could be administratively allocated to the point-source emitters (including zero emitters, if so determined) and the remaining portion, if any, could be auctioned.**

a. How would the amount of emission allowances given to deliverers/first sellers be determined during any particular compliance period?

**IEP continues to evaluate the efficacy of these approaches. At this point, we do not have a preferred option.**

b. How would importers that are marketers be treated, e.g., would they receive emission allowance allocations or be required to purchase all their needed emission allowances through auctions? If allocated, using what method?

**Under a 1<sup>st</sup> Seller approach, as IEP understands this approach, marketers and importers would be required to acquire the requisite number of emission allowances to match their specific (or imputed for unspecified resources) emission profile associated with the generation serving CA load. These allowances would be obtained either directly from an administrator (under the administratively determined method) or in an auction. Importantly, they should not be treated differently.**

c. How would electric service providers be treated?

**See answer immediately above.**

d. How would new deliverers/first sellers obtain emission allowances?

**See answer immediately above.**

e. Would zero-carbon generators receive emission allowance allocations?

**IEP continues to evaluate the efficacy of these approaches. At this point, we do not have a preferred option.**

f. What would be the impact on market performance, prices, and costs to customers of allocating emission allowances to deliverers/first sellers?

**From a price/cost perspective, if allowances are administratively allocated such that allowances do not constitute an operating cost (either variable or capital) borne by market participants, then the direct impact on market prices will be zero. From a market performance perspective, even in this initial period, the market will be signaling that emissions levels will need to decrease, and 1<sup>st</sup> Sellers will respond to these emission reduction signals.**

**As the amount of allowances ratchet down over time, then relatively higher emitting resources will either (a) reduce generation or (b) procure allowances/offsets in a secondary market, and/or (c) reduce emissions. In either case, market fundamentals will come into play and relatively cleaner generation resources will become economically advantaged.**

**The higher costs for relatively higher emitting resources coupled with the potential for higher costs for lower/zero emitting generation additions, should be transparent to consumers who are the ultimate beneficiaries of the GHG emission reduction program. To the extent that the state determines particular end-use sectors deserve compensation (e.g. low income communities), recompense should and can come through other rate reducing/income enhancing measures.**

g. What would be the likelihood of windfall profits if some or all emission allowances are allocated to deliverers/first sellers?

**As noted above [see IEP response to Q1], the concept of “windfall profits” is difficult to employ in the context of assessing the value of implementing market-based mechanisms for securing GHG emissions reduction. As a practical matter, the cost of allowances will be akin to an O&M cost (much like fuel) faced by all 1<sup>st</sup> Sellers. The marketplace must be designed to provide a reasonable opportunity to recover these operating costs.**

h. How could such a system prevent windfall profits?

**See answer above.**

Q24. With a deliverer/first seller point of regulation, should administrative allocations of emission allowances be made to retail providers for subsequent auctioning to deliverers/first sellers? If so, using what allocation method? Refer to your answers in Section 3.4.1., as appropriate.

**Emphatically, NO. As long as retail service providers have investment interests in their own generation, which is the case today in California, they must have no involvement in either (a) the administration of the auction or (b) allocation of the**

**auction revenues. To do otherwise would be to fundamentally undermine the commission's goal of fostering a "competitive level playing field" within the generation sector.**

**Allowing retail service providers a role in either of these two functions would provide the means for one sector of the competitive generation community to favor its own generation interests in the design of the auction and/or use of the auction revenues. Promises that the commission's rate making proceedings will provide suitable protections against abuse are not sufficient, nor practically actionable given the complexity and duration of typical utility/IOU rate cases (note, neither munis nor ESPs have equivalent processes as IOU rate cases that *might* be employed to discover the extent to which favoritism persists). Importantly, if retail service providers were allowed to control the administration of the auction and/or revenues from the sale of allowances, California would further exacerbate the barriers to generation investment in CA and, as a result, valuable IPP investment dollars, innovation, and experience would move to locations more favorable investment environments out-of-state.**

Q25. If you recommend allocation of emission allowances to retail providers followed by an auction to deliverers/first sellers, how would such an auction be administered? What kinds of issues would such a system raise? What would be the impact on market performance, prices, and costs to customers?

**When considering the costs of such a proposal, which IEP opposes, the commission should consider the costs of undermining private sector investment in CA and the innovation that accompanies such investment interest.**

### **3.5. Natural Gas Sector**

Q26. Answer each of the questions in Section 3.4.1. except Q16, but for the natural gas sector and with reference to natural gas distribution companies (investor- or publicly-owned), interstate pipeline companies, or natural gas storage companies as appropriate. Explain if your answer differs among these types of natural gas entities. Explain any differences between your answers for the electricity sector and the natural gas sector.

Q27. Are there any other factors unique to the natural gas sector that has not been captured in the questions above? If so, describe the issues and your recommendations.

### **3.6. Overall Recommendation**

Q28. Considering your responses above, summarize your primary recommendation for how the State should design a system whereby electricity and natural gas entities obtain emission allowances if a cap and trade system is adopted?

**IEP continues to evaluate the efficacy of these approaches. At this point, we do not have a preferred option.**

**As a general rule, in addition to the goals and objectives outlined above, we believe the following needs to be implemented:**

- **To the extent a 1<sup>st</sup> Seller approach is employed, a reasonable phase-in between allocations and auctions should be employed until such time as 100% of the allowances are auctioned.**
- **The administration of the auction and the determination of the use of allowance revenues, if any, need to be administered by non-market participants to ensure fairness, integrity, and a suitable investment climate in CA.**

2970/019/X93898.v1

## **CERTIFICATE OF SERVICE**

I, Lisa Vieland, certify that I have on this 31st day of October 2007 caused a copy of the foregoing

**COMMENTS OF THE INDEPENDENT ENERGY PRODUCERS  
ASSOCIATION IN RESPONSE TO ADMINISTRATIVE LAW JUDGE'S  
RULING REQUESTING COMMENTS AND NOTICING WORKSHOP ON  
ALLOWANCE ALLOCATION ISSUES**

to be served on all known parties to R.06-04-009 listed on the most recently updated service list available on the California Public Utilities Commission website, via email to those listed with email and via U.S. mail to those without email service. I also caused courtesy copies to be hand-delivered as follows:

Commissioner President Michael R. Peevey  
California Public Utilities Commission  
State Building, Room 5218  
505 Van Ness Avenue  
San Francisco, CA 94102

ALJ Charlotte TerKeurst  
California Public Utilities Commission  
State Building, Room 5117  
505 Van Ness Avenue  
San Francisco, CA 94102

ALJ Jonathan Lakritz  
California Public Utilities Commission  
State Building, Room 5020  
505 Van Ness Avenue  
San Francisco, CA 94102

ALJ Meg Gottstein  
California Public Utilities Commission  
State Building, Room 2106  
505 Van Ness Avenue  
San Francisco, CA 94102

I declare under penalty of perjury that the foregoing is true and correct. Executed this 31st day of October 2007 at San Francisco, California.

/s/ Lisa Vieland  
Lisa Vieland

Service List R.06-04-009  
Last Updated 10/29/07

CINDY ADAMS  
cadams@covantaenergy.com

STEVEN S. SCHLEIMER  
steven.schleimer@barclayscapital.com

STEVEN HUHMAN  
steven.huhman@morganstanley.com

RICK C. NOGER  
rick\_noger@praxair.com

KEITH R. MCCREA  
keith.mccrea@sablaw.com

ADAM J. KATZ  
ajkatz@mwe.com

CATHERINE M. KRUPKA  
ckrupka@mwe.com

LISA M. DECKER  
lisa.decker@constellation.com

CATHY S. WOOLLUMS  
cswoollums@midamerican.com

KEVIN BOUDREAUX  
kevin.boudreaux@calpine.com

THOMAS DILL  
trdill@westernhubs.com

E.J. WRIGHT  
ej\_wright@oxy.com

PAUL M. SEBY  
pseby@mckennalong.com

TIMOTHY R. ODIL  
todil@mckennalong.com

STEPHEN G. KOERNER, ESQ.  
steve.koerner@elpaso.com

JENINE SCHENK  
jenine.schenk@apses.com

JOHN B. WELDON, JR.  
jbw@slwplc.com

KELLY BARR  
kelly.barr@srpnet.com

ROBERT R. TAYLOR  
rrtaylor@srpnet.com

STEVEN S. MICHEL  
smichel@westernresources.org

ROGER C. MONTGOMERY  
roger.montgomery@swgas.com

RONALD F. DEATON  
ron.deaton@ladwp.com

SID NEWSOM  
snewsom@semprautilities.com

DAVID L. HUARD  
dhuard@manatt.com

CURTIS L. KEBLER  
curtis.kebler@gs.com

DENNIS M.P. EHLING  
dehling@klng.com

GREGORY KOISER  
gregory.koiser@constellation.com

NORMAN A. PEDERSEN  
npedersen@hanmor.com

MICHAEL MAZUR  
mmazur@3phasesRenewables.com

TIFFANY RAU  
tiffany.rau@bp.com

GREGORY KLATT  
klatt@energyattorney.com

RICHARD HELGESON  
rhelgeson@scppa.org

DANIEL W. DOUGLASS  
douglass@energyattorney.com

PAUL DELANEY  
pssed@adelphia.net

AKBAR JAZAYEIRI  
akbar.jazayeri@sce.com

ANNETTE GILLIAM  
annette.gilliam@sce.com

CATHY A. KARLSTAD  
cathy.karlstad@sce.com

LAURA I. GENAO  
Laura.Genao@sce.com

RONALD MOORE  
rkmoore@gswater.com

DON WOOD  
dwood8@cox.net

AIMEE M. SMITH  
amsmith@sempra.com

ALLEN K. TRIAL  
atrial@sempra.com

ALVIN PAK  
apak@sempraglobal.com

DAN HECHT  
dhecht@sempratrading.com

DANIEL A. KING  
daking@sempra.com

SYMONE VONGDEUANE  
svongdeuane@semprasolutions.com

THEODORE ROBERTS  
troberts@sempra.com

DONALD C. LIDDELL, P.C.  
liddell@energyattorney.com

MARCIE MILNER  
marcie.milner@shell.com

REID A. WINTHROP  
rwinthrop@pilotpowergroup.com

THOMAS DARTON  
tdarton@pilotpowergroup.com

STEVE RAHON  
lschavrien@semprautilities.com

GLORIA BRITTON  
GloriaB@anzaelectric.org

LYNELLE LUND  
llund@commerceenergy.com

TAMLYN M. HUNT  
thunt@cecmail.org

JEANNE M. SOLE  
jeanne.sole@sfgov.org

JOHN P. HUGHES  
john.hughes@sce.com

LAD LORENZ  
llorenz@semprautilities.com

MARCEL HAWIGER  
marcel@turn.org

NINA SUETAKE  
nsuetake@turn.org

Diana L. Lee  
dil@cpuc.ca.gov

F. Jackson Stoddard  
fjs@cpuc.ca.gov

AUDREY CHANG  
achang@nrdc.org

DONALD BROOKHYSER  
rsa@a-klaw.com

EVELYN KAHL  
ek@a-klaw.com

KRISTIN GRENFELL  
kgrenfell@nrdc.org

MICHAEL P. ALCANTAR  
mpa@a-klaw.com

SEEMA SRINIVASAN  
sls@a-klaw.com

WILLIAM H. CHEN  
bill.chen@constellation.com



BRIAN K. CHERRY  
bkc7@pge.com

EDWARD G POOLE  
epoole@adplaw.com

ANN G. GRIMALDI  
agrimaldi@mckennalong.com

BRIAN T. CRAGG  
bcragg@goodinmacbride.com

JAMES D. SQUERI  
jsqueri@gmssr.com

JEANNE B. ARMSTRONG  
jarmstrong@goodinmacbride.com

KAREN BOWEN  
kbowen@winston.com

LISA A. COTTLE  
lcottle@winston.com

SEAN P. BEATTY  
sbeatty@cwclaw.com

VIDHYA PRABHAKARAN  
vprabhakaran@goodinmacbride.com

JOSEPH M. KARP  
jkarp@winston.com

JEFFREY P. GRAY  
jeffgray@dwt.com

CHRISTOPHER J. WARNER  
cjw5@pge.com

SARA STECK MYERS  
ssmyers@att.net

LARS KVALE  
lars@resource-solutions.org

ANDREW L. HARRIS  
alho@pge.com

ANDREA WELLER  
aweller@sel.com

JENNIFER CHAMBERLIN  
jchamberlin@strategicenergy.com

BETH VAUGHAN  
beth@beth411.com

KERRY HATTEVIK  
kerry.hattevik@mirant.com

AVIS KOWALEWSKI  
kowalewskia@calpine.com

WILLIAM H. BOOTH  
wbooth@booth-law.com

J. ANDREW HOERNER  
hoerner@redefiningprogress.org

JANILL RICHARDS  
janill.richards@doj.ca.gov

CLIFF CHEN  
cchen@ucsusa.org

GREGG MORRIS  
gmorris@emf.net

R. THOMAS BEACH  
tomb@crossborderenergy.com

BARRY F. MCCARTHY  
bmcc@mccarthyaw.com

C. SUSIE BERLIN  
sberlin@mccarthyaw.com

MIKE LAMOND  
anginc@goldrush.com

JOY A. WARREN  
joyw@mid.org

BALDASSARO DI CAPO  
California Independent System Operator  
151 BLUE RAVINE ROAD  
FOLSOM, CA 95630

JOHN JENSEN  
jjensen@kirkwood.com

MARY LYNCH  
mary.lynych@constellation.com

LEONARD DEVANNA  
lrdevanna-rf@cleanenergysystems.com

ANDREW BROWN  
abb@eslawfirm.com

BRUCE MCLAUGHLIN  
mclaughlin@braunlegal.com

GREGGORY L. WHEATLAND  
glw@eslawfirm.com

JANE E. LUCKHARDT  
jluckhardt@downeybrand.com

JEFFERY D. HARRIS  
jdh@eslawfirm.com

VIRGIL WELCH  
vwelch@environmentaldefense.org

WILLIAM W. WESTERFIELD, 111  
www@eslawfirm.com

DOWNEY BRAND  
DOWNEY BRAND  
Sacramento Municipal  
555 CAPITOL MALL, 10TH FLOOR  
SACRAMENTO, CA 95814-4686

RAYMOND J. CZAHR, C.P.A.  
westgas@aol.com

STEVEN M. COHN  
scohn@smud.org

ANN L. TROWBRIDGE  
atrowbridge@daycartermurphy.com

DAN SILVERIA  
dansvec@hdo.net

JESSICA NELSON  
notice@psrec.coop

DONALD BROOKHYSER  
deb@a-klaw.com

CYNTHIA SCHULTZ  
cynthia.schultz@pacificorp.com

KYLE L. DAVIS  
kyle.l.davis@pacificorp.com

RYAN FLYNN  
ryan.flynn@pacificorp.com

IAN CARTER  
carter@ieta.org

JASON DUBCHAK  
jason.dubchak@niskags.com

BRIAN M. JONES  
bjones@mjbardley.com

MATTHEW MOST  
EDISON MISSION MARKETING &  
TRADING, INC.  
160 FEDERAL STREET  
BOSTON, MA 02110-1776

KENNETH A. COLBURN  
kcolburn@sympioticstrategies.com

RICHARD COWART  
rapcowart@aol.com

KATHRYN WIG  
Kathryn.Wig@nrgenergy.com

SAKIS ASTERIADIS  
sasteriadis@apx.com

GEORGE HOPELY  
george.hopely@barcap.com

ELIZABETH ZELLJADT  
ez@pointcarbon.com

DALLAS BURTRAW  
burtraw@rff.org

VERONIQUE BUGNION  
vb@pointcarbon.com

KYLE D. BOUDREAU  
kyle\_boudreaux@fpl.com

ANDREW BRADFORD  
andrew.bradford@constellation.com

GARY BARCH  
gbarch@knowledgeinenergy.com

RALPH E. DENNIS  
ralph.dennis@constellation.com

SAMARA MINDEL  
smindel@knowledgeinenergy.com

BARRY RABE  
brabe@umich.edu

BRIAN POTTS  
bpotts@foley.com

JAMES W. KEATING  
james.keating@bp.com

JAMES ROSS  
jimross@r-c-s-inc.com

TRENT A. CARLSON  
tcarlson@reliant.com

GARY HINNERS  
ghinners@reliant.com

JEANNE ZAIONTZ  
zaiontj@bp.com

JULIE L. MARTIN  
julie.martin@bp.com

FIJI GEORGE  
fiji.george@elpaso.com

ED CHIANG  
echiang@elementmarkets.com

NADAV ENBAR  
nenbar@energy-insights.com

NICHOLAS LENSSEN  
nlenssen@energy-insights.com

ELIZABETH BAKER  
bbaker@summitblue.com

WAYNE TOMLINSON  
william.tomlinson@elpaso.com

KEVIN J. SIMONSEN  
kjsimonsen@ems-ca.com

SANDRA ELY  
Sandra.ely@state.nm.us

BRIAN MCQUOWN  
bmcquown@reliant.com

DOUGLAS BROOKS  
dbrooks@nevap.com

ANITA HART  
anita.hart@swgas.com

RANDY SABLE  
randy.sable@swgas.com

BILL SCHRAND  
bill.schrand@swgas.com

JJ PRUCNAL  
jj.prucnal@swgas.com

SANDRA CAROLINA  
sandra.carolina@swgas.com

CYNTHIA MITCHELL  
ckmitchell1@sbcglobal.net

CHRISTOPHER A. HILEN  
chilen@sppc.com

ELENA MELLO  
emello@sppc.com

TREVOR DILLARD  
tdillard@sierrapacific.com

DARRELL SOYARS  
dsoyars@sppc.com

FRANK LUCHETTI  
fluchetti@ndep.nv.gov

LEILANI JOHNSON KOWAL  
leilani.johnson@ladwp.com

LORRAINE PASKETT  
Lorraine.Paskett@ladwp.com

RANDY S. HOWARD  
randy.howard@ladwp.com

ROBERT L. PETTINATO  
robert.pettinato@ladwp.com

HUGH YAO  
HYao@SempraUtilities.com

RASHA PRINCE  
rprince@semprautilities.com

RANDALL W. KEEN  
rkeen@manatt.com

S. NANCY WHANG  
nwhang@manatt.com

PETER JAZAYERI  
pjazayeri@stroock.com

DEREK MARKOLF  
derek@climateregistry.org

DAVID NEMTZOW  
david@nemtzw.com

HARVEY EDER  
harveyederpspc.org@hotmail.com

VITALY LEE  
vitaly.lee@aes.com

STEVE ENDO  
sendo@ci.pasadena.ca.us

STEVEN G. LINS  
slins@ci.glendale.ca.us

TOM HAMILTON  
THAMILTON5@CHARTER.NET

BRUNO JEIDER  
bjeider@ci.burbank.ca.us

RICHARD J. MORILLO  
rmorillo@ci.burbank.ca.us

ROGER PELOTE  
roger.pelote@williams.com

AIMEE BARNES  
aimee.barnes@ecosecurities.com

CASE ADMINISTRATION  
case.admin@sce.com

TIM HEMIG  
tim.hemig@nrgenergy.com

BARRY LOVELL  
bjl@bry.com

ALDYN HOEKSTRA  
aldyn.hoekstra@paceglobal.com

YVONNE GROSS  
ygross@sempraglobal.com

JOHN LAUN  
jlaun@apogee.net

KIM KIENER  
kмкиener@fox.net

SCOTT J. ANDERS  
scottanders@sandiego.edu

JOSEPH R. KLOBERDANZ  
jkloberdanz@semprautilities.com

ANDREW MCALLISTER  
andrew.mcallister@energycenter.org

JACK BURKE  
jack.burke@energycenter.org

JENNIFER PORTER  
jennifer.porter@energycenter.org

SEPHRA A. NINOW  
sephra.ninow@energycenter.org

JOHN W. LESLIE  
jleslie@luce.com

ORLANDO B. FOOTE, III  
ofoote@hkcf-law.com

ELSTON K. GRUBAUGH  
ekgrubaugh@iid.com

THOMAS MCCABE  
EDISON MISSION ENERGY  
18101 VON KARMAN AVE., STE 1700  
IRVINE, CA 92612

JAN PEPPER  
pepper@cleanpowermarkets.com

GLORIA D. SMITH  
gsmith@adamsbroadwell.com

MARC D. JOSEPH  
mdjoseph@adamsbroadwell.com

DIANE I. FELLMAN  
diane\_fellman@fpl.com

HAYLEY GOODSON  
hayley@turn.org

MICHEL FLORIO  
mflorio@turn.org

DAN ADLER  
Dan.adler@calcef.org

MICHAEL A. HYAMS  
mhyams@sflower.org

THERESA BURKE  
tburke@sflower.org

NORMAN J. FURUTA  
norman.furuta@navy.mil

AMBER MAHONE  
amber@ethree.com

ANNABELLE MALINS  
annabelle.malins@fco.gov.uk

DEVRA WANG  
dwang@nrdc.org

KAREN TERRANOVA  
filings@a-klaw.com

NORA SHERIFF  
nes@a-klaw.com

OLOF BYSTROM  
obystrom@cera.com

SETH HILTON  
sdhilton@stoel.com

SHERYL CARTER  
scarter@nrdc.org

ASHLEE M. BONDS  
abonds@thelen.com

CARMEN E. BASKETTE  
cbaskette@enernoc.com

COLIN PETHERAM  
colin.petheram@att.com

JAMES W. TARNAGHAN  
jwmctarnaghan@duanemorris.com

KEVIN FOX  
kfox@wsgr.com

KHURSHID KHOJA  
kkhoja@thelenreid.com

PETER V. ALLEN  
pvallen@thelen.com

SHERIDAN J. PAUKER  
spauker@wsgr.com

ROBERT J. REINHARD  
reinhard@mofo.com

CALIFORNIA ENERGY MARKETS  
cem@newsdata.com

HOWARD V. GOLUB  
hgolub@nixonpeabody.com

JANINE L. SCANCARELLI  
jscancarelli@flk.com

JOSEPH F. WIEDMAN  
jwiedman@goodinmacbride.com

MARTIN A. MATTES  
mmattes@nossaman.com

JEN MCGRAW  
jen@cnt.org

LISA WEINZIMER  
lisa\_weinzimer@platts.com

STEVEN MOSS  
steven@moss.net

SHAUN ELLIS  
sellis@fypower.org

ARNO HARRIS  
arno@recurrentenergy.com

ED LUCHA  
ELL5@pge.com

GRACE LIVINGSTON-NUNLEY  
gxl2@pge.com

JASMIN ANSAR  
jxa2@pge.com

JONATHAN FORRESTER  
JDF1@PGE.COM

RAYMOND HUNG  
RHHJ@pge.com

SEBASTIEN CSAPO  
sscb@pge.com

SOUMYA SASTRY  
svs6@pge.com

STEPHANIE LA SHAWN  
S1L7@pge.com

VALERIE J. WINN  
vjw3@pge.com

KARLA DAILEY  
karla.dailey@cityofpaloalto.org

FARROKH ALBUYEH  
farrokh.albuyeh@oati.net

DEAN R. TIBBS  
dtibbs@aes4u.com

JEFFREY L. HAHN  
jhahn@covantaenergy.com

ANDREW J. VAN HORN  
andy.vanhorn@vhcenergy.com

JOSEPH M. PAUL  
Joe.paul@dynegy.com

SUE KATELEY  
info@calseia.org

GREG BLUE  
gblue@enxco.com

SARAH BESERRA  
sbeserra@sbcglobal.net

MONICA A. SCHWEBS, ESQ.  
monica.schwebs@bingham.com

PETER W. HANSCHEN  
phansch@mofo.com

JOSEPH HENRI  
josephhenri@hotmail.com

PATRICIA THOMPSON  
pthompson@summitblue.com

WILLIAM F. DIETRICH  
dietrichlaw2@earthlink.net

BETTY SETO  
Betty.Seto@kema.com

GERALD L. LAHR  
JerryL@abag.ca.gov

JODY S. LONDON  
jody\_london\_consulting@earthlink.net

STEVEN SCHILLER  
steve@schiller.com

MRW & ASSOCIATES, INC.  
mrw@mrwassoc.com

REED V. SCHMIDT  
rschmidt@bartlewells.com

ADAM BRIONES  
adamb@greenlining.org

CLYDE MURLEY  
clyde.murley@comcast.net

BRENDA LEMAY  
brenda.lemay@horizonwind.com

CARLA PETERMAN  
carla.peterman@gmail.com

EDWARD VINE  
elvine@lbl.gov

RYAN WISER  
rhwiser@lbl.gov

CHRIS MARNAY  
C\_Marnay@1b1.gov

PHILLIP J. MULLER  
philm@scdenergy.com

RITA NORTON  
rita@ritanortonconsulting.com

CARL PECHMAN  
cpechman@powereconomics.com

MAHLON ALDRIDGE  
emahlon@ecoact.org

RICHARD SMITH  
richards@mid.org

MODESTO IRRIGATION DISTRICT  
1231 11TH STREET  
MODESTO, CA 95354

ROGER VAN HOY  
rogerv@mid.org

WES MONIER  
fwmonier@tid.org

BARBARA R. BARKOVICH  
brbarkovich@earthlink.net

JOHN R. REDDING  
johnredding@earthlink.net

CLARK BERNIER  
clark.bernier@rlw.com

RICHARD MCCANN, PH.D  
rmccann@umich.edu

CAROLYN M. KEHREIN  
cmkehrein@ems-ca.com

CALIFORNIA ISO  
e-recipient@caiso.com

GRANT ROSENBLUM, ESQ.  
grosenblum@caiso.com

KAREN EDSON  
151 BLUE RAVINE ROAD  
FOLSOM, CA 95630

ROBIN SMUTNY-JONES  
rsmutny-jones@caiso.com

SAEED FARROKHPAY  
saeed.farrokhpay@ferc.gov

DAVID BRANCHCOMB  
david@branchcomb.com

KENNY SWAIN  
kenneth.swain@navigantconsulting.com

KIRBY DUSEL  
kdusel@navigantconsulting.com

GORDON PICKERING  
gpickering@navigantconsulting.com

LAURIE PARK  
lpark@navigantconsulting.com

DAVID REYNOLDS  
davidreynolds@ncpa.com

SCOTT TOMASHEFSKY  
scott.tomashefsky@ncpa.com

ELLEN WOLFE  
ewolfe@resero.com

AUDRA HARTMANN  
Audra.Hartmann@Dynergy.com

BOB LUCAS  
Bob.lucas@calobby.com

CURT BARRY  
curt.barry@iwpnews.com

DAN SKOPEC  
danskopec@gmail.com

DANIELLE MATTHEWS SEPERAS  
dseperas@calpine.com

DAVID L. MODISETTE  
dave@ppallc.com

DOUGLAS K. KERNER  
dkk@eslawfirm.com

JUSTIN C. WYNNE  
wynne@braunlegal.com

KASSANDRA GOUGH  
kgough@calpine.com

KELLIE SMITH  
kellie.smith@sen.ca.gov

KEVIN WOODRUFF  
kdw@woodruff-expert-services.com

MICHAEL WAUGH  
mwaugh@arb.ca.gov

PANAMA BARTHOLOMY  
pbarthol@energy.state.ca.us

PATRICK STONER  
pstoner@lgc.org

RACHEL MCMAHON  
rachel@ceert.org

WEBSTER TASAT  
wtasat@arb.ca.gov

STEVEN KELLY  
steven@iepa.com

EDWARD J. TIEDEMANN  
etiedemann@kmtg.com

LAURIE TEN HOPE  
ltenhope@energy.state.ca.us

JOSHUA BUSHINSKY  
bushinskyj@pewclimate.org

LYNN HAUG  
lmh@eslawfirm.com

OBADIAH BARTHOLOMY  
obartho@smud.org

BUD BEEBE  
bbeebe@smud.org

BALWANT S. PUREWAL  
bpurewal@water.ca.gov

DOUGLAS MACMULLEN  
dmacml@water.ca.gov

KAREN NORENE MILLS  
kmills@cfbf.com

KAREN LINDH  
karen@klindh.com

ELIZABETH W. HADLEY  
ehadley@reupower.com

DENISE HILL  
Denise\_Hill@transalta.com

ANNIE STANGE  
sas@a-klaw.com

ELIZABETH WESTBY  
egw@a-klaw.com

ALEXIA C. KELLY  
akelly@climatetrust.org

ALAN COMNES  
alan.comnes@nrgenergy.com

KYLE SILON  
kyle.silon@ecosecurities.com

CATHIE ALLEN  
californiadockets@pacificcorp.com

PHIL CARVER  
Philip.H.Carver@state.or.us

SAM SADLER  
samuel.r.sadler@state.or.us

LISA SCHWARTZ  
lisa.c.schwartz@state.or.us

CLARE BREIDENICH  
cbreidenich@yahoo.com

DONALD SCHOENBECK  
dws@r-c-s-inc.com

JESUS ARREDONDO  
jesus.arredondo@nrenergy.com

CHARLIE BLAIR  
charlie.blair@delta-ee.com

KAREN MCDONALD  
karen.mcdonald@powerex.com

CLARENCE BINNINGER  
clarence.binninger@doj.ca.gov

DAVID ZONANA  
david.zonana@doj.ca.gov

Andrew Campbell  
agc@cpuc.ca.gov

Anne Gillette  
aeg@cpuc.ca.gov

Beth Moore  
blm@cpuc.ca.gov

Cathleen A. Fogel  
cf1@cpuc.ca.gov

Charlotte TerKeurst  
cft@cpuc.ca.gov

Christine S. Tam  
tam@cpuc.ca.gov

Donald R. Smith  
dsh@cpuc.ca.gov

Ed Moldavsky  
edm@cpuc.ca.gov

Eugene Cadenasso  
cpe@cpuc.ca.gov

Harvey Y. Morris  
hym@cpuc.ca.gov

Henry Stern  
hs1@cpuc.ca.gov

Jaclyn Marks  
jm3@cpuc.ca.gov

Jacqueline Greig  
jnm@cpuc.ca.gov

Jamie Fordyce  
jbf@cpuc.ca.gov

Jason R. Salmi Klotz  
jk1@cpuc.ca.gov

George S. Tagnipes  
jst@cpuc.ca.gov

Joel T. Perlstein  
jtp@cpuc.ca.gov

Jonathan Lakritz  
jol@cpuc.ca.gov

Judith Ikle  
jci@cpuc.ca.gov

Julie A. Fitch  
jf2@cpuc.ca.gov

Kristin Ralff Douglas  
krd@cpuc.ca.gov

Lainie Motamedi  
lrm@cpuc.ca.gov

Lana Tran  
ltn@cpuc.ca.gov

Matthew Deal  
mjd@cpuc.ca.gov

Nancy Ryan  
ner@cpuc.ca.gov

Pamela Wellner  
pw1@cpuc.ca.gov

Paul S. Phillips  
psp@cpuc.ca.gov

Pearlie Sabino  
pzs@cpuc.ca.gov

Rahmon Momoh  
rmm@cpuc.ca.gov

Richard A. Myers  
ram@cpuc.ca.gov

Sara M. Kamins  
smk@cpuc.ca.gov

Scott Murtishaw  
sgm@cpuc.ca.gov

Sean A. Simon  
svn@cpuc.ca.gov

Steve Roscow  
scr@cpuc.ca.gov

Theresa Cho  
tcx@cpuc.ca.gov

BILL LOCKYER  
ken.alex@doj.ca.gov

KEN ALEX  
ken.alex@doj.ca.gov

BALDASSARO DICAPO  
bdicapo@caiso.com

JUDITH B. SANDERS  
jsanders@caiso.com

JULIE GILL  
jgill@caiso.com

MARY MCDONALD  
DIRECTOR OF STATE AFFAIRS  
CALIFORNIA INDEPENDENT SYSTEM  
OPERATOR  
CAISO  
151 BLUE RAVINE ROAD  
FOLSOM, CA 95630

PHILIP D. PETTINGILL  
ppettingill@caiso.com

MICHAEL SCHEIBLE  
mscheibl@arb.ca.gov

EVAN POWERS  
epowers@arb.ca.gov

JEFFREY DOLL  
jdoll@arb.ca.gov

PAM BURMICH  
pburmich@arb.ca.gov

B. B. BLEVINS  
bblevins@energy.state.ca.us

DARYL METZ  
dmetz@energy.state.ca.us

DEBORAH SLON  
deborah.slon@doj.ca.gov

Don Schultz  
dks@cpuc.ca.gov

KAREN GRIFFIN  
kgriffin@energy.state.ca.us

LISA DECARLO  
ldecarlo@energy.state.ca.us

MARC PRYOR  
mpryor@energy.state.ca.us

MICHELLE GARCIA  
mgarcia@arb.ca.gov

PIERRE H. DUVAIR  
pduvair@energy.state.ca.us

Wade McCartney  
wsm@cpuc.ca.gov

CAROL J. HURLOCK  
hurlock@water.ca.gov

HOLLY B. CRONIN  
hcronin@water.ca.gov

PUC/X93876.v1